

Amendments to the Claims

Please amend Claims 40, 43, 44 and 48-74. Please add new claim 75. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1-39. (Canceled).

40. (Currently amended) A computer program product for remotely monitoring execution of a computer program, comprising:

first computer code that collects data during an execution of a computer program using at least one monitoring instruction, the at least one monitoring instruction being ~~associated with~~ incorporated into the computer program, the collected data being ~~associated with~~ regarding the execution of the computer program;

second computer code that sends the collected data to a remote system such that execution of the computer program is remotely monitored, the collected data being analyzed by the remote system; and

a computer readable storage medium that stores the first and second computer codes.

41. (Previously presented) The computer program product of claim 40, wherein the computer readable medium is a CR-ROM, floppy disk, tape, flash memory, system memory, or hard drive.

42. (Previously presented) The computer program product of claim 40, wherein sending the collected data to the remote system includes automatically sending the collected data to the remote system.

43. (Currently amended) The computer program product of claim 40, ~~further including changing wherein~~ the at least one monitoring instruction ~~over the computer program development cycle~~ is changed in response to the collected data.
44. (Currently amended) The computer program product of claim 40, ~~further including wherein the first computer code classifies~~ classifying the execution of the computer as normal or abnormal.
45. (Previously presented) The computer program product of claim 44, further including saving a call stack in the collected data if the execution of the computer program is classified as abnormal.
46. (Previously presented) The computer program product of claim 40, further including allowing a user to customize processing that will be performed when the computer program finishes the execution.
47. (Previously presented) The computer program product of claim 40, further including generating a symbolic call stack on the remote system so that the computer program may be debugged remotely.
48. (Currently amended) The computer program product of claim 40, wherein the computer program is compiled on the remote system, ~~the method further including the remote system~~ storing a module map when the computer program is compiled on the remote system.
49. (Currently amended) The computer program product of claim 40, ~~further including wherein the remote system is adapted for~~ remotely debugging the computer program.

50. (Currently amended) The computer program product of claim 40, ~~further including~~ wherein the second computer code sending sends a version of the computer program to the remote system during the execution of the computer program.
51. (Currently amended) The computer program product of claim 50, further including third computer code that downloads downloading a new version of the computer from the remote system.
52. (Currently amended) The computer program product of claim 40, ~~further including~~ incorporating wherein the at least one monitoring instruction first computer code is incorporated into the computer program.
53. (Currently amended) The computer program product of claim 40, ~~further including~~ linking wherein the at least one monitoring instruction first computer code is linked into the computer program.
54. (Currently amended) A computer method of ~~The computer program product for remotely~~ monitoring execution of a computer program, the method comprising the steps of:
executing, at a computer system, computer code that executes a computer program including at least one monitoring instruction for collecting data regarding the execution of the computer program;
collecting, at the computer system, data provided by computer code that for the at least one monitoring instruction, the collected ~~that collect~~ data regarding the execution of the computer program; and
sending computer code that sends the collected data to a remote system such that execution of the computer program is monitored remotely, the data being analyzed at the remote system; ~~and~~
a computer readable storage medium that stores the computer codes.

55. (Currently amended) The ~~computer program product~~ method of claim 54, wherein the computer program is stored to a computer readable medium at the computer system, the computer readable medium being one of is a CD-ROM, floppy disk, tape, flash memory, system memory, ~~[[or]]~~ and hard drive.
56. (Currently amended) The ~~computer program product~~ method of claim 54, further comprising the step of automatically sending the collected data to the remote system when the computer program finishes execution.
57. (Currently amended) The ~~computer program product~~ method of claim 54, further comprising the step of changing the at least one monitoring instruction over the computer program development cycle.
58. (Currently amended) The ~~computer program product~~ method of claim 54, further comprising the step of classifying the execution of the computer program as normal or abnormal.
59. (Currently amended) The ~~computer program product~~ method of claim 58, further comprising the step of saving ~~the a~~ call stack in the collected data if the execution of the computer program is classified as abnormal.
60. (Currently amended) The ~~computer program product~~ method of claim 54, further comprising the step of allowing ~~the a~~ user to customize processing that will be performed when the computer program finishes execution.
61. (Currently amended) The ~~computer program product~~ method of claim 54, further comprising the step of generating a symbolic call stack ~~[[on]]~~ at the remote system so that the computer program may be debugged remotely.

62. (Currently amended) The ~~computer program product~~ method of claim 54, ~~wherein the computer program is compiled on the remote system and~~ further comprising the steps of compiling the computer program at the remote system and storing a module map when the computer program is compiled on at the remote system, the module map being associated with the computer program.
63. (Currently amended) The ~~computer program product~~ method of claim 62, further comprising the step of storing a call stack and module list when the computer program finishes execution.
64. (Currently amended) The ~~computer program product~~ method of claim 63, further comprising the step of generating a module name/relative virtual address (RVA) list from the call stack and module list.
65. (Currently amended) The ~~computer program product~~ method of claim 64, further comprising the step of sending the module name/RVA list to the remote system.
66. (Currently amended) The ~~computer program product~~ method of claim 65, further comprising the step of generating a symbolic call stack on the remote system from the module map and the module name/RVA list so that the computer program may be debugged remotely.
67. (Currently amended) The ~~computer program product~~ method of claim 54, further comprising the step of remotely debugging the computer program.
68. (Currently amended) The ~~computer program product~~ method of claim 54, further comprising the step of sending a version of the computer program to the remote system during execution of the computer program.

69. (Currently amended) The ~~computer program product~~ method of claim 68, further comprising the step of downloading a new version of the computer program from the remote system.
70. (Currently amended) The ~~computer program product~~ method of claim 54, further comprising the step of sending information to a bug tracking application.
71. (Currently amended) The ~~computer program product~~ method of claim 54, further comprising the step of, for each portion of the computer program designed by a different vendor, collecting data specific to each portion.
72. (Currently amended) The ~~computer program product~~ method of claim 54, wherein the at least one monitoring instruction specifies a vendor.
73. (Currently amended) The ~~computer program product~~ method of claim 72, further comprising the step of utilizing a Windows hook to intercept a system call invoked by the computer program .
74. (Currently amended) The ~~computer program product~~ method of claim 54, wherein the at least one monitoring instructions are computer platform independent.
75. (New) A system for monitoring the execution of a computer program, the system comprising:
a program under test (PUT) having first computer code that collects data during an execution of the PUT using at least one monitoring instruction, the collected data regarding the execution;
second computer code that sends the collected data to a remote system; and

a monitoring program operating at the remote system, the monitoring program receiving and analyzing the collected data such that execution of the PUT is remotely monitored.